INTERNATIONAL HEALTH TERMINOLOGY
STANDARDS DEVELOPMENT ORGANISATION

U.S. Nominations for IHTSDO Standing Committees

August 5, 2013

Implementation & Innovation Committee Candidates

Candidates Listed Alphabetically

Candidate Name: **Tomasz Adamusiak**

Affiliation: **Medical College of Wisconsin**

Statement of Interest for the I&I Committee – Tomasz Adamusiak, MD, PhD

I am a Senior Scientist at the Human and Molecular Genetics Center, Medical College of Wisconsin with several years of hands-on experience in clinical terminologies, as well as bio-ontologies and semantic technologies in general. I trained in Clinical Informatics at the National Library of Medicine, and bioinformatics at the European Bioinformatics Institute in Cambridge, UK. My major research focus is on the next-generation EHR phenotyping and the application of Meaningful Use vocabulary standards including SNOMED CT, LOINC, and RxNorm in clinical data analytics.

SNOMED CT is poised to become the cornerstone of U.S. health information interchange as the mandatory terminology for encoding smoking status, problems, and procedures within a patient electronic health record. The next big challenge in health IT is the integration of SNOMED CT with other clinical terminologies in a single clinical workflow and the ability to provide semantic interoperability among disparate healthcare providers.

In these exciting times, I would love to be involved in the Implementation and Innovation Committee as the ideal venue for investigating emerging opportunities for SNOMED CT implementations and testing new ideas in terminology development.

Thank you for considering my nomination.

Tomasz Adamusiak MD PhD

July 28, 2013
Human and Molecular Genetics Center
Medical College of Wisconsin

EDUCATION

PhD 2006 – 2008
Medical University of Lodz, Poland

MD 2000 – 2006
Medical University of Lodz, Poland

EXPERIENCE

Research Scientist II 2012 – Present
Medical College of Wisconsin
Milwaukee, WI, United States

Postdoctoral Fellow in Clinical Informatics 2011 – 2012
National Library of Medicine
Bethesda, MD, United States

Bioinformatician – GEN2PHEN 2008 – 2011
European Bioinformatics Institute
Cambridge, United Kingdom

LEADERSHIP AND COMMITTEE POSITIONS

Committee Member 2012 – Present
Clinical Informatics Subspecialty Board Exam
Preparation Program Item Writing Committee
American Medical Informatics Association

PRESENTATIONS

Integrating SNOMED CT with other Meaningful Use vocabulary standards…
SNOMED CT Implementation Showcase
Washington DC, 10-11 October 2013

SELECTED PUBLICATIONS

- *Translating standards into practice – One Semantic Web API for Gene Expression*. Deus HF, Prud'hommeaux E, Miller M, Zhao J, Malone J, **Adamusiak T**, McCusker J, Das S, Rocca Serra P, Fox R, Marshall MS. J Biomed Inform. 2012 Aug;45(4):782-94. PMID: 22449719
- *OntoCAT – simple ontology search and integration in Java, R and REST/JavaScript*. **Adamusiak T**, Burdett T, Kurbatova N, Joeri van der Velde K, Abeygunawardena N, Antonakaki D, Kapushesky M, Parkinson H, Swertz MA. BMC Bioinformatics. 2011 May 29;12:218. PMID: 21619703
- *Quality Assurance in LOINC using Description Logic*. **Adamusiak T**, Bodenreider O., AMIA Annu Symp Proc. 2012;2012:1099-108. PMID: 23304386

July 2013

INTERNATIONAL HEALTH TERMINOLOGY STANDARDS DEVELOPMENT ORGANISATION

Skills Matrix – Implementation & Innovation

Please help us to ensure that IHTSDO Committees consist of a balanced and diverse set of expertise and experience. We would appreciate if you could complete the form below, marking each box for which you have relevant skills or experience.

Please send completed forms to the National Library of Medicine via e-mail (nichsr@nlm.nih.gov) no later than COB July 29th. Please use the subject "US Nominations – IHTSDO Standing Committees".

Thank you for helping to ensure a strong advisory structure for IHTSDO and its Members.

Nominee

Name	Tomasz Adamusiak

Skills Matrix

IHTSDO seeks individuals with a mix of skills to serve on Standing Committees. Please mark the attribute(s) in which you have experience and expertise at an organizational, national and/or international level.

Attributes	**Check all that apply**
SNOMED CT Concept Design, Content Development, and/or Research on SNOMED CT Design and Implementation Issues	X
Systems Architecture and Integration	X
Software Design, Development and Implementation	
Implementation and use of SNOMED CT and/or other terminologies in Health Information Systems, including clinical or health services research systems	X
Implementation of clinical messaging or document standards	X
Research and Development of Biomedical Ontologies and Health Terminologies other than SNOMED CT	X
Research/Experience in Semantic Interoperability and Semantic Data Mining	X
Research Management and Funding	X
SNOMED CT, Biomedical Ontologies, and/or Health terminologies Education /teaching	X
Education Management and Certification/Accreditation	
Public Relations	
Ability to influence implementation by key stakeholders	X

Candidate Name: **Olivier Bodenreider**

Affiliation: **U.S. National Library of Medicine**

Statement of interest – Olivier Bodenreider

I have been a member of the Quality Assurance Committee (QAC) since its inception in 2007. I have actively participated in the biannual face-to-face meetings and monthly teleconference calls. I have been involved in several working groups of this Committee regarding the implementation of the Quality Assurance Framework and work on quality metrics. In addition to my duties as member of the QAC, I have contributed to the pharmacy and anatomy working groups of the IHTSDO, and I served as a member of the editorial group for the Technical Implementation Guide.

Trained as a MD and PhD in medical informatics, and with 15 years of professional experience at the National Library of Medicine, I bring to the Implementation and Innovation Committee some of the skills listed in its skill matrix, including knowledge of biomedical terminologies and ontologies (in particular SNOMED CT), as well as experience with research on and development of biomedical ontologies and ontologies.

Additionally, I am a scientific advisor to the National Center for Biomedical Ontology and a member of the WHO IDC-11 revisions Technical Advisory Group on Health Information Modeling. As such I have supported harmonization efforts between SNOMED CT and ICD-11. More recently, I have been nominated to the WHO-FIC Network Informatics and Terminology Committee.

I believe my research-oriented profile and deep knowledge of and experience with SNOMED CT would be beneficial to the Implementation & Innovation Committee. Although I do not have any first-hand experience with the implementation of SNOMED CT in clinical information systems, several aspects of my research are relevant to the implementation side of this committee, including quality assurance issues in SNOMED CT and other biomedical terminologies, as well as integration of SNOMED CT with other standards (e.g., FMA, MedDRA and LOINC). Moreover, these and other research aspects are relevant to the innovation side of this committee. For example, my experience with the development of terminology services and application programming interfaces (APIs) for RxNorm, and my involvement with Semantic Web research in healthcare and life sciences.

The quality of the terminology is an important factor for its adoption. Having served on the Quality Assurance committee for 6 years, I have contributed to the development of artifacts such as the QA Framework and related policies. I would be in a unique position to bridge between the two standing committees and transfer knowledge between them.

Adoption of SNOMED CT as the terminology of reference for clinical documentation and for clinical decision support is essential to the objective of IHTSDO to “enhance the health of humankind by facilitating better health information management”. Facilitating the adoption of SNOMED CT is one of the core missions of this committee. However, this committee also lays out a vision for future research, developments, and partnerships.

One specific interest I have in participating in the activities of the Implementation & Innovation Committee is to contribute to the interoperability between SNOMED CT and other standards.

Mini-CV Olivier Bodenreider

- M.D. University of Strasbourg, France (1990)
- Ph.D. in Medical Informatics, University of Nancy, France (1993)
- Chief, Cognitive Science Branch, US National Library of Medicine, NIH (2011-present)
- Researcher at the US National Library of Medicine (1996-present)
    - Research on theoretical aspects of biomedical terminologies and ontologies (including SNOMED CT)
    - Research on the application of biomedical terminologies and ontologies to natural language understanding, decision support and information integration
    - Responsible for the production of the Semantic Network of the Unified Medical Language System (UMLS)
- Selected relevant memberships
    - IHTSDO Quality Assurance Committee since its creation in 2007
    - WHO IDC-11 revisions Technical Advisory Group on Health Information Modeling (since 2008)
    - WHO-FIC Network Informatics and Terminology Committee (since 2011)
- Selected relevant publications below

SNOMED CT

1. **Bodenreider O**, Demner Fushman D. Investigating drug classes in biomedical terminologies from the perspective of clinical decision support. AMIA Annu Symp Proc 2010:56-60.
2. Mougin F, **Bodenreider O**, Burgun A. Looking for anemia (and other disorders) in SNOMED CT: Comparison of three approaches and practical implications. AMIA Annu Symp Proc 2010:527-531.
3. Wei D, **Bodenreider O**. Using the Abstraction Network in complement to Description Logics for quality assurance in biomedical terminologies - A case study in SNOMED CT. Stud Health Technol Inform (Proc Medinfo) 2010;160:1070-1074.
4. Zhang G-Q, **Bodenreider O**. Large-scale, exhaustive lattice-based structural auditing of SNOMED CT. AMIA Annu Symp Proc 2010:922-926.
5. **Bodenreider O**. Using SNOMED CT in combination with MedDRA for reporting signal detection and adverse drug reactions reporting. AMIA Annu Symp Proc 2009:45-49.
6. **Bodenreider O**. Comparing SNOMED CT and the NCI Thesaurus through Semantic Web technologies. Proceedings of the Third International Conference on Knowledge Representation in Medicine (KR-MED 2008) 2008:37-43 (electronic proceedings: http://ceur-ws.org/Vol-410/).
7. **Bodenreider O**. Issues in mapping LOINC laboratory tests to SNOMED CT. AMIA Annu Symp Proc 2008:51-55.
8. Rogers J, **Bodenreider O**. SNOMED CT: Browsing the browsers. Proceedings of the Third International Conference on Knowledge Representation in Medicine (KR-MED 2008) 2008:30-36 (electronic proceedings: http://ceur-ws.org/Vol-410/).
9. **Bodenreider O**, Zhang S. Comparing the representation of anatomy in the FMA and SNOMED CT. AMIA Annu Symp Proc 2006:46-50.

Biomedical terminologies and ontologies

1. Fung KW, **Bodenreider O**. Knowledge representation and ontologies. In: Richesson RL, Andrews JE, editors. Clinical research informatics. London: Springer-Verlag; 2012. p. 255-275.
2. **Bodenreider O**. Biomedical ontologies in action: role in knowledge management, data integration and decision support. Geissbuhler A, Kulikowski C, editors. IMIA Yearbook of Medical Informatics 2008. Methods Inf Med 2008;47(Suppl 1):67-79.
3. **Bodenreider O**. The Unified Medical Language System (UMLS): Integrating biomedical terminology. Nucleic Acids Res 2004;32 Database issue:D267-270.

INTERNATIONAL HEALTH TERMINOLOGY STANDARDS DEVELOPMENT ORGANISATION

Skills Matrix – Implementation & Innovation

Nominee

Name	Olivier Bodenreider

Skills Matrix

IHTSDO seeks individuals with a mix of skills to serve on Standing Committees. Please mark the attribute(s) in which you have experience and expertise at an organizational, national and/or international level.

Attributes	**Check all that apply**
SNOMED CT Concept Design, Content Development, and/or Research on SNOMED CT Design and Implementation Issues	Yes
Systems Architecture and Integration	No
Software Design, Development and Implementation	Yes
Implementation and use of SNOMED CT and/or other terminologies in Health Information Systems, including clinical or health services research systems	Yes (research)
Implementation of clinical messaging or document standards	No
Research and Development of Biomedical Ontologies and Health Terminologies other than SNOMED CT	Yes
Research/Experience in Semantic Interoperability and Semantic Data Mining	Yes
Research Management and Funding	Yes
SNOMED CT, Biomedical Ontologies, and/or Health terminologies Education /teaching	Yes
Education Management and Certification/Accreditation	No
Public Relations	No
Ability to influence implementation by key stakeholders	No

Candidate Name: **James A. (Jamie) Ferguson**

Affiliation: **Kaiser Permanente**

Statement of Interest – Jamie Ferguson

I am writing to express interest in being re-elected to the Implementation and Innovation Committee of the International Healthcare Terminology Standards Development Organisation (IHTSDO). Since being a member of I&I for the past term I have led efforts to improve the practical implementation and reuse of SNOMED CT Reference Sets. Overall my drive to participate on the I&I Committee stems from a long term interest in implementing health information interoperability capabilities at all levels from basic science research to global public health, but I also wish to pursue specific interests and to support the work of others in contributing to wider and more effective deployment and adoption of SNOMED CT. Widespread adoption of SNOMED is my objective and I believe working on the I&I Committee is the best way to achieve it. I wish to contribute to the Committee several perspectives based on my other roles, previous and current work: the perspective of large-scale practitioners using SNOMED-based primary and acute care records data in production operations for care coordination across multiple organizations; a perspective of semantic web advocates who are testing and piloting new technical solutions; the perspective of Kaiser Permanente's current internal development and uses of concept descriptions, search terms, vocabulary cross-maps and tooling; a perspective of donor coordination for implementation of health IT in developing countries; as well as the perspective of multiple standards development organizations.

I believe my role in the US, leading the strategy group for Mayo Clinic, Intermountain Healthcare, Geisinger Health System, Group Health Cooperative and Kaiser Permanente to implement care coordination using SNOMED CT, as well as my roles in the World Wide Web Consortium (W3C) and elsewhere will be valuable to the I&I Committee, but I also believe that by working on the I&I Committee I will be able better to inform and coordinate activities of these and other health care standards users and developers to align and coordinate with IHTSDO better. As an implementer I have an interest in widespread vendor adoption of SNOMED and related technologies. Innovations and improvements in care delivery and research can be enabled by the work of the I&I Committee and I wish to contribute.

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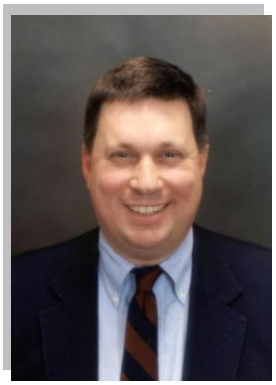

Jamie Ferguson
Fellow, Institute for Health Policy
Vice President, Health Information Technology Strategy and Policy

Jamie Ferguson is a Fellow at the Institute for Health Policy and Vice President of health information technology strategy and policy for Kaiser Permanente. Jamie has been at Kaiser Permanente since 2002. He is responsible for health IT priorities, policies, and standards, as well as government and industry relations for IT. Before this assignment, Jamie was responsible for the development and operations of Kaiser Permanente's clinical and administrative data systems, information modeling, and health IT standards.

Jamie participates in multiple national and international health IT organizations to help more people to gain the benefits of interoperability with consistent and computable health information that is made available when and where it is needed. He is a member and work group chair of the US Department of Health and Human Services Health IT Standards Committee; Vice Chair of the Digital Health Council of the World Economic Forum; and he is active in ISO, W3C, IHTSDO, HL7, the National Quality Forum, and the World Health Organization. He currently serves as chairman of the Care Connectivity Consortium, the collaborative interoperability effort of Geisinger Health System, Group Health Cooperative, Intermountain Healthcare, Kaiser Permanente, and Mayo Clinic.

Prior to joining Kaiser Permanente, Jamie was a research investigator at Yale University School of Medicine; an economist in the US Federal Reserve System; a senior vice president and divisional chief information officer (CIO) at Bank of America; and an independent consultant. He has a degree in Molecular Biophysics and Biochemistry from Yale University and he studied computer science at Massachusetts Institute of Technology.

Recent articles:

There Are Important Reasons For Delaying US Implementation Of The ICD-10 Coding System
http://content.healthaffairs.org/content/early/2012/03/21/hlthaff.2011.1258.full

Semantic Node Labeling
http://www.ringholm.com/docs/05010_Symantic_Node_Labeling_SNL_SNOMED.htm

INTERNATIONAL HEALTH TERMINOLOGY STANDARDS DEVELOPMENT ORGANISATION

Skills Matrix – Implementation & Innovation

Nominee

Name	James A. (Jamie) Ferguson

Skills Matrix

IHTSDO seeks individuals with a mix of skills to serve on Standing Committees. Please mark the attribute(s) in which you have experience and expertise at an organizational, national and/or international level.

Attributes	**Check all that apply**
SNOMED CT Concept Design, Content Development, and/or Research on SNOMED CT Design and Implementation Issues	XXX
Systems Architecture and Integration	XXX
Software Design, Development and Implementation	XXX
Implementation and use of SNOMED CT and/or other terminologies in Health Information Systems, including clinical or health services research systems	XXX
Implementation of clinical messaging or document standards	XXX
Research and Development of Biomedical Ontologies and Health Terminologies other than SNOMED CT	
Research/Experience in Semantic Interoperability and Semantic Data Mining	XXX
Research Management and Funding	XXX
SNOMED CT, Biomedical Ontologies, and/or Health terminologies Education /teaching	
Education Management and Certification/Accreditation	
Public Relations	XXX
Ability to influence implementation by key stakeholders	XXX

Candidate Name: **Ram Gouripeddi, MBBS, MS**

Affiliation: **Department of Biomedical Informatics, University of Utah**

STATEMENT OF INTEREST

My areas of interest and work have been in using SNOMED CT for interoperable standards based clinical research across multiple institutions. I also work with SNOMED CT in sharing clinical knowledge and in providing clinical decision support. Through these experiences I have gained a lot of working knowledge on how SNOMED CT could be implemented in these areas and how software applications would have to be tailored to meets these needs. In these efforts I have developed methods to evaluate SNOMED CT implementations and best practices for mapping local coding systems to standard terminologies. I have working experience with many other terminologies including LOINC, RxNorm, HL7, NDF-RT, Multum, ICD, CPT, CDSIC and MedDRA, and with biomedical ontologies.

In other works, I have drilled into SNOMED CT to check its coverage for clinical sub-specialties and in creating subsets specific to sub-populations such a pediatric problem lists. I assessed the similarity/dissimilarity of SNOMED CT's representation of clinical concepts to that of clinical experts and how far SNOMED CT's representation of clinical knowledge. On a related noted I have embedded SNOMED CT into for knowledge discovery platforms using state of the art machine learning algorithms that utilize the terminologies hierarchical and concept relationships. One of my other interests is in semantic data mining and semi-automating the mapping of local terminologies to SNOMED CT.

The Implementation and Innovation Committee plays an important role in keeping SNOMED CT relevant and ready for use and adaptation in the ever-evolving clinical environment. The committee's role in assessing new and unproven ideas and envisioning how these would fit into new health landscape is therefore important. One such idea that I would be interested is in the use social collaborative efforts in authoring and maintenance of SNOMED CT terminology. As medicine becomes more specialized, it would need people with varied expertise to contribute in their capacities. Also the advice and assistance provided by this committee in the practical implementation of SNOMED CT dependent tools is important for revolutionizing healthcare. This task of the committee is important for SNOMED CT being used as the backbone for clinical information management - be it for patient care, clinical knowledge and guidelines sharing, or for clinical research and knowledge discovery.

With these interests in using and developing SNOMED CT for clinical research and decision support, and with my formal clinical and informatics trainings and experiences, I feel that I could contribute to the SNOMED CT and IHTSDO by being a member of the Implementation and Innovation Committee. I would like to thank you for considering me for this position.

- Ram Gouripeddi

Dr. Ramkiran Gouripeddi
Department of Biomedical Informatics
University of Utah

PROFESSION EXPERIENCE

Assistant Professor, Dept. of Biomedical Informatics, University of Utah **Dec 2012 - Present**

- Principal Investigator for development of a standard terminology based infrastructure for clinical data federation and integration to performance of comparative effectiveness research.
- Lead terminology implementation, mapping and modeling of disparate data sources to standards.
- Semantic data mining approaches to semi-automate mapping of local to standard terminologies.
- Evaluating user behaviors in utilizing standard terminology based systems.
- Teaching: Biomedical Terminologies and Ontologies for Clinical Research.

Research Associate, University of Utah **Jan 2012 – Nov 2012**

- Lead the design and implementation of terminology and management of controlled vocabularies, metadata and knowledge, including analysis and translation of requirements specified by user community, repository architects, and software engineers into useful and maintainable content.
- Methods to evaluate terminology quality and mappings.
- Use of SNOMED CT for managing micro-organisms and microbial investigations in clinical databases.

Medical Terminology Engineer, University of Utah **Nov 2010 – Dec 2011**

- Lead the design and implementation of terminology and management of controlled vocabularies.
- Terminology modeling, development and management for clinical research, knowledge sharing and decision support endeavors.
- Mapping local terminologies to central project terminologies and helping define integration, migration, conversion strategies for new content sources, including robust change control and versioning procedures.
- Education and assistance to operational personnel.

Business Analyst, Sai Systems International **Feb 2010 – Nov 2010**

- Developing medical vocabularies and for HIS management and analysis.

Research Associate, Arizona State University **Aug 2007 – May 2010**

- Machine Learning & Knowledge Engineering approaches in Clinical Decision Support using state of the art machine learning algorithms and clinical terminologies like SNOMED CT.
- Conversion of Clinical Guidelines into a computable form and encoding them with terminologies to enable interoperability.

Consultant Physician, India **Oct 2004 – June 2007**

EDUCATION

Master of Science (Biomedical Informatics), Arizona State University **2010**

Bachelor of Medicine, Bachelor of Surgery (MBBS) **2004**

Dr. TN MGR Medical University, Chennai, INDIA

INTERNATIONAL HEALTH TERMINOLOGY STANDARDS DEVELOPMENT ORGANISATION

Skills Matrix – Implementation & Innovation

Nominee

Name	Ram Gouripeddi

Skills Matrix

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Attributes	**Check all that apply**
SNOMED CT Concept Design, Content Development, and/or Research on SNOMED CT Design and Implementation Issues	**X**
Systems Architecture and Integration	**X**
Software Design, Development and Implementation	**X**
Implementation and use of SNOMED CT and/or other terminologies in Health Information Systems, including clinical or health services research systems	**X**
Implementation of clinical messaging or document standards	**X**
Research and Development of Biomedical Ontologies and Health Terminologies other than SNOMED CT	**X**
Research/Experience in Semantic Interoperability and Semantic Data Mining	**X**
Research Management and Funding	**X**
SNOMED CT, Biomedical Ontologies, and/or Health terminologies Education /teaching	**X**
Education Management and Certification/Accreditation	**X**
Public Relations	**X**
Ability to influence implementation by key stakeholders	**X**

Candidate Name: **Susan Matney, RN, MS**

Affiliation: **3M Health Information Systems**

Susan Matney, RN, MS, PhD(c), FAAN
Statement of Interest for the IHTSDO Implementation and Innovation Committee

Why am I, Susan Matney, suited for the Implementation and Innovation Committee?

I have worked in the medical field for over 35 years in both staff and administrative capacities. Since completing my masters degree in nursing informatics in 1997 my career has been focused on terminology, ontology, information model, and standards development. More specifically:

- **I have experience implementing SNOMED CT in a multihospital infrastructure.** Under the direct supervision of Stan Huff I maintained and oversaw the development of the Healthcare Data Dictionary (HDD) at Intermountain Healthcare. The HDD is a standalone database that houses multiple terminologies and is called from multiple environments. The terminology server facilitates interoperability between 23 hospitals and 400 clinics across the state of Utah.
- **I have experience implementing SNOMED CT within a vended system.** In my position at Siemens I helped to develop a model for representing the knowledge to drive a dynamic, patient-centric plan of care. We used multiple terminologies in this project which included SNOMED, the Clinical Care Classification System (CCC), the Perioperative Nursing Data set (PNDS), the International Classification of Nursing Practice (ICNP), and LOINC.
- **I have experience implementing SNOMED CT for research.** I used and extended SNOMED CT as the core clinical terminology within a research infrastructure at the University of Utah. Local content from four different systems was linked to SNOMED CT to facilitate accurate cohort selection.
- **In have experience implementing SNOMED CT within Canada Health Infoway.** In my current role at 3M, I work as a consultant half time for Canada Health Infoway as a SNOMED CT subject matter expert. In that role, I develop SNOMED CT content used within Canada.
- **I have experience with integrating terminology systems.** My current role is specifically focused on integrating multiple terminology systems. As a medical informaticist at 3M, I am overseeing the mapping of nursing documentation forms from the US Department of Defense to the 3M Healthcare Data Dictionary (HDD), most specifically the SNOMED CT and LOINC content.
- **I understand how terminologies are bound to information models for use.** Intermountain healthcare uses an information model with terminology binding. Most recently, I led the development of a pressure ulcer assessment model that has SNOMED CT and LOINC bindings. This model has been released for use within the United States.
- **I have leadership experience in standards development organizations.** I am the current chair of the SNOMED CT Nursing SIG and chair of the Clinical LOINC nursing subcommittee. I am an active member of HL7 and have held multiple positions including co-chair of the patient care committee and am currently the vocabulary facilitator for the patient care.

In addition, I am familiar with the IHTSDO processes as I have been an active and contributing member of the Quality Assurance committee for the past six years.

Why the Implementation and Innovation Committee Work is Important:

As the world continues to wrestle with the plethora of complex issues unearthed by the need for healthcare information exchange, the IHTSDO possesses the “Rosetta Stone” of this area: its unique potential to provide the ontology used in health care and biomedical research. Interoperability of healthcare information has been recognized as a key field for several years, in which SNOMED is the recognized authority. The only way interoperability can be achieved is through accurate and consistent implementation.

SNOMED CT is rapidly becoming the de facto standard terminology for health information; therefore it is imperative that we provide the advice, assistance, and tools necessary for accurate implementation and maintenance. I feel that I can be beneficial in developing those processes. I look forward to the future and the possibilities that interoperability will provide through the use of SNOMED CT.

Thank you for considering my nomination.

BIOGRAPHICAL SKETCH

NAME	POSITION TITLE
Susan A. Matney, RNC, MSN, PhD(c), FAAN	**Medical Informaticist – 3M Health Information Systems, Murray, UT, USA**

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Mesa State College, Grand Junction, CO	A.D.N.	1984-89	Nursing
University of Phoenix, Salt Lake City, UT	B.S.N.	1990-93	Nursing
University of Utah, Salt Lake City, UT	M.S.N.	1994-98	Nursing Informatics
University of Utah, Salt Lake City, UT	PhD(c)	In Progress	Nursing

Positions and Employment

1989 - 1993	Director of Nursing, Allen Memorial Hospital, Moab, UT
1993 - 1997	Director of Women's Services, Lakeview Hospital, Bountiful, UT
1997 - 2005	Medical Vocabulary Engineer - Team Lead, Intermountain Healthcare, Salt Lake City, UT
2001 - Present	Adjunct Professor - College of Nursing, University of Utah, Salt Lake City, UT
2005 - 2008	Nurse Informaticist, Siemens Medical Solutions, Malvern, PA
2008 - 2010	Senior Content Engineer, University of Utah, Salt Lake City, UT
2011- May 2011	Sr. Medical Vocabulary Engineer – Homer Warner Informatics Research Center, Intermountain Healthcare, Salt Lake City, UT
2011 - Present	Medical Informaticist, Health Data Dictionary Team, 3M Healthcare, Murray, UT
2012 - Present	SNOMED CT Subject Matter Expert (SME), Canada Health Infoway, Toronto, Canada

Federal Government Public Advisory Committee(s)

1997 - Present	Clinical LOINC (Logical Observation Identifiers Names and Codes) Chair Nursing Subcommittee
2006 - 2008	Co-Chair, Health Level 7. Patient Care
2007 - 2009	Utah Appointed Member, American Nurses Association. Committee for Nursing Practice Infrastructure (CNPII)
2007 - Present	Appointed Committee Member, National Library of Medicine. Appointed Member of Quality Assurance Committee
2012 – Present	Chair SNOMED CT Nursing SIG

B. Select peer-reviewed publications (in chronological order).

1. Danko, A, Kennedy, R, Haskell, R, Androwich, IM, Button, P, Correia, CM, Grobe, SJ, Harris, MR, Matney, S, Russler, D. (2003). Modeling Nursing Interventions in the Act Class of HL7 RIM Version 3. *J Biomed Inform*, *36*(4-5), 294-303.
2. Matney S, Bakken S, Huff SM. (2003). Representing Nursing Assessments in Clinical Information Systems Using the Logical Observation Identifiers, Names, and Codes (LOINC) Database. *J Biomed Inform*, *36*(4-5), 287-293.
3. Matney S**,** Dent C, Rocha RA. (Aug 2004). Development of a compositional terminology model for nursing orders. *Int J Med Inf*, *73*(7-8), 625-630.
4. Huff SM, Rocha R, Parker CG, Matney SA. (2006). Ontologies, Vocabularies and Data Models. In Greenes RA (Ed.), *Medical Decision-Making: Computer Based Approaches to Achieving Healthcare Quality and Safety*. Elsevier.
5. Matney SA**,** Bakken S, Huff SM. (2006). Messaging the Clinical Care Classification (CCC) System using Logical Observation Identifiers Names and Codes (LOINC) and Health Level Seven (HL7). In Saba, VK (Eds.), *Clinical Care Classification (CCC) System Manual: A Guide to Nursing documentation*. New York: Springer.
6. Matney SA, DaDamio R, Couderc C, Dlugos M, Evans J, Gianonne G, Haskell R, Hardiker N, Coenen A, Saba VK.

(2008). Translation and integration of CCC nursing diagnoses into ICNP. *J Am Med Inform Assoc*, *15*(6), 791-3.

7. Matney SA, Warren JJ, Casey A. (07/07/2009). Educating a health terminologist. *Stud Health Technol Inform*, (146), 577-81.
8. Westra BL, Matney SA, Subramanian A, Hart CM. (In Press). Case Study 13B: Update of the NMMDS and Mapping to LOINC. In Weaver CA, Delaney C, Weber P, Carr RL (Eds.), *Nursing and Informatics for the 21st Century: An International Look at Practice, Trends and the Future* (2nd). HIMSS.
9. Matney, SA., & Lundberg, C. (2011). The Role of Standardized Terminology and Language in Informatics. In T. Hebda & P. Czar (Eds.), *Handbook of Informatics for. Nurses & Health Care Professionals* (5th ed.). Upper Saddle River, NJ: Prentice Hall.

10 Matney, SA., Brewster, P. J., Sward, K. A., Cloyes, K. G., & Staggers, N. (2011). Philosophical Approaches to the Nursing Informatics Data-Information-Knowledge-Wisdom Framework. *ANS Adv Nurs Sci, 34(1).*

11. Matney, SA, Warren, J. J., Evans, J. L., Kim, T. Y., Coenen, A., & Auld, V. A. Development of the Nursing Problem List Subset of SNOMED CT®. *Journal of Biomedical Informatics*, 45 (4), 683-688.
12. Matney SA, Maddox, L. Staggers. Nurses as Knowledge Workers: Is There Evidence of Knowledge in Patient Handoffs? *Western Journal of Nursing Research* (in press).

INTERNATIONAL HEALTH TERMINOLOGY STANDARDS DEVELOPMENT ORGANISATION

Skills Matrix – Implementation & Innovation

Nominee

Name	Susan A. Matney

Skills Matrix

IHTSDO seeks individuals with a mix of skills to serve on Standing Committees. Please mark the attribute(s) in which you have experience and expertise at an organizational, national and/or international level.

Attributes	**Check all that apply**
SNOMED CT Concept Design, Content Development, and/or Research on SNOMED CT Design and Implementation Issues	x
Systems Architecture and Integration	x
Software Design, Development and Implementation	x
Implementation and use of SNOMED CT and/or other terminologies in Health Information Systems, including clinical or health services research systems	x
Implementation of clinical messaging or document standards	x
Research and Development of Biomedical Ontologies and Health Terminologies other than SNOMED CT	x
Research/Experience in Semantic Interoperability and Semantic Data Mining	x
Research Management and Funding	
SNOMED CT, Biomedical Ontologies, and/or Health terminologies Education /teaching	x
Education Management and Certification/Accreditation	
Public Relations	
Ability to influence implementation by key stakeholders	x